数据库设计

注：为了区别数字1，小写L即L，大写I即i，所有i字母均小写,L字母均大写。

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| 学校教学周表 | | | | | |
| 字段名 | **数据类型** | **外键关联字段** | **唯一约束** | **非空** | **描述** |
| id(主键) | int |  |  |  |  |
| SchooLName | 字符串 |  |  | **✔** |  |
| Term | int |  |  | **✔** | 学期，如2017年9月开学的上半学期保存为20172018 |
| FirstWeek | 日期 |  |  | **✔** | 第一教学周的周一的日期 |

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| 教师表 | | | | | |
| 字段名 | **数据类型** | **外键关联字段** | **唯一约束** | **非空** | **描述** |
| id(主键) | int |  |  |  |  |
| Teacherid | int |  | **✔** |  |  |
| WeChatid | 字符串 |  |  |  | 需要做唯一性检查，但其在创建时为空，所以不能用唯一约束。 |
| TeacherName | 字符串 |  |  |  |  |
| SchooLName | 字符串 |  |  | **✔** |  |
| Department | 字符串 |  |  | **✔** |  |

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| 学生表 | | | | | |
| 字段名 | **数据类型** | **外键关联字段** | **唯一约束** | **非空** | **描述** |
| id(主键) | int |  |  |  |  |
| Type | int |  |  | **✔** |  |
| WeChatid | 字符串 |  | **✔** |  |  |
| StudentName | 字符串 |  |  |  |  |
| Studentid | int |  |  |  | Type为学生时非空 |
| SchooLName | 字符串 |  |  |  | Type为学生时非空 |
| Department | 字符串 |  |  |  | Type为学生时非空 |

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| 课程表 | | | | | |
| 字段名 | **数据类型** | **外键关联字段** | **唯一约束** | **非空** | **描述** |
| id(主键) | int |  |  |  |  |
| Courseid | int |  |  | **✔** |  |
| CourseName | 字符串 |  |  | **✔** |  |
| Teacherid | int | 教师表的id |  | **✔** |  |
| TeachingBuiLding | 字符串 |  |  | **✔** | 教学楼 |
| CLassroom | 字符串 |  |  | **✔** |  |
| Longitude | int |  |  | **✔** | 经度 |
| Latitude | int |  |  | **✔** | 纬度 |
| SchooLTermid | int | 学校教学周表的id |  | **✔** |  |
| CourseTime | 字符串 |  |  | **✔** | 保存所有上课信息，如“星期三第6-8小节;第1-9教学周” |

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| 课程安排表 | | | | | |
| 字段名 | **数据类型** | **外键关联字段** | **唯一约束** | **非空** | **描述** |
| id(主键) | int |  |  |  |  |
| Courseid | int | 课程表的id |  | **✔** |  |
| Date | 日期 |  |  | **✔** | 需要上课的日期 |
| Section | int |  |  | **✔** | 第几节开始 |
| Period | int |  |  | **✔** | 上几个学时 |
| SignUpStartTime | 时间 |  |  | **✔** | 几点开始能够签到 |
| SignUpEndTime | 时间 |  |  | **✔** | 几点结束签到 |

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| 选课表 | | | | | |
| 字段名 | **数据类型** | **外键关联字段** | **唯一约束** | **非空** | **描述** |
| id(主键) | int |  |  |  |  |
| Courseid | int | 课程表的id |  | **✔** |  |
| Studentid | int | 学生表的id |  | **✔** |  |

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| 签到记录表 | | | | | |
| 字段名 | **数据类型** | **外键关联字段** | **唯一约束** | **非空** | **描述** |
| id(主键) | int |  |  |  |  |
| Courseid | int | 课程表的id |  | **✔** |  |
| Studentid | int | 学生表的id |  | **✔** |  |
| Date | 日期 |  |  | **✔** |  |